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 NEWS  4  APR 04   STN AnaVist $500 visualization usage credit offered
 NEWS  5  MAY 10   CA/CAplus enhanced with 1900-1906 U.S. patent records
 NEWS  6  MAY 11   KOREAPAT updates resume
 NEWS  7  MAY 19   Derwent World Patents Index to be reloaded and enhanced
 NEWS  8  MAY 30   IPC 8 Rolled-up Core codes added to CA/CAplus and
                   USPATFULL/USPAT2
 NEWS  9  MAY 30   The F-Term thesaurus is now available in CA/CAplus
 NEWS 10  JUN 02   The first reclassification of IPC codes now complete in
                   INPADOC
 NEWS 11  JUN 26   TULSA/TULSA2 reloaded and enhanced with new search and
                   and display fields
 NEWS 12  JUN 28   Price changes in full-text patent databases EPFULL and PCTFULL
 NEWS 13  JUl 11   CHEMSAFE reloaded and enhanced
 NEWS 14  JUl 14   FSTA enhanced with Japanese patents
 NEWS 15  JUl 19   Coverage of Research Disclosure reinstated in DWPI

 NEWS EXPRESS  JUNE 30 CURRENT WINDOWS VERSION IS V8.01b, CURRENT
               MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP),
               AND CURRENT DISCOVER FILE IS DATED 26 JUNE 2006.

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FILE 'HOME' ENTERED AT 11:21:53 ON 04 AUG 2006

=> file uspatfull
COST IN U.S. DOLLARS                                    SINCE FILE      TOTAL
                                                           ENTRY    SESSION
FULL ESTIMATED COST                                         0.42       0.42

FILE 'USPATFULL' ENTERED AT 11:22:53 ON 04 AUG 2006
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FILE COVERS 1971 TO PATENT PUBLICATION DATE: 3 Aug 2006 (20060803/PD)
FILE LAST UPDATED: 3 Aug 2006 (20060803/ED)
HIGHEST GRANTED PATENT NUMBER: US7086090
HIGHEST APPLICATION PUBLICATION NUMBER: US2006174388
CA INDEXING IS CURRENT THROUGH 1 Aug 2006 (20060801/UPCA)
ISSUE CLASS FIELDS (/INCL) CURRENT THROUGH: 3 Aug 2006 (20060803/PD)
REVISED CLASS FIELDS (/NCL) LAST RELOADED: Apr 2006
USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE: Apr 2006


=> a (tacrolimus or fk506)
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=> s (tacrolimus or fk506)
          3084 TACROLIMUS
          4025 FK506
L1        6118 (TACROLIMUS OR FK506)

=> s l1 and implant and prosthe?
         69605 IMPLANT
         36182 PROSTHE?
L2         791 L1 AND IMPLANT AND PROSTHE?

=> s l2 and biodegradable
         44617 BIODEGRADABLE
L3         327 L2 AND BIODEGRADABLE

=> s l3 and stent
         15286 STENT
L4         195 L3 AND STENT

=> s l4 and coat?
        936188 COAT?
L5         195 L4 AND COAT?

=> s l5 and matrix
        418090 MATRIX
L6         185 L5 AND MATRIX

=> s l6 and rapamycin
          6092 RAPAMYCIN
L7         160 L6 AND RAPAMYCIN

=> s l7 and mTOR
           604 MTOR
L8          44 L7 AND MTOR

=> s l8 and receptor(w)bind?
        132496 RECEPTOR
        505529 BIND?
         26921 RECEPTOR(W)BIND?
L9           0 L8 AND RECEPTOR(W)BIND?

=> s l8 and receptor?
        150346 RECEPTOR?
L10         44 L8 AND RECEPTOR?

=> s l10 and class/subclass
'SUBCLASS' IS NOT A VALID FIELD CODE
             0 CLASS/SUBCLASS
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L11 0 L10 AND CLASS/SUBCLASS

=> d l10 1-20 ibib abs

L10 ANSWER 1 OF 44 USPATFULL on STN
ACCESSION NUMBER: 2006:174045 USPATFULL
TITLE: Biodegradable coating compositions including multiple layers
INVENTOR(S): DeWitt, David M., Minneapolis, MN, UNITED STATES
Hergenrother, Robert W., Eden Prairie, MN, UNITED STATES

	NUMBER	KIND	DATE	
PATENT INFORMATION:	US 2006147491	A1	20060706	
APPLICATION INFO.:	US 2005-316787	A1	20051222	(11)

	NUMBER	DATE
PRIORITY INFORMATION:	US 2005-641557P	20050105 (60)

DOCUMENT TYPE: Utility
FILE SEGMENT: APPLICATION
LEGAL REPRESENTATIVE: KAGAN BINDER, PLLC, SUITE 200, MAPLE ISLAND BUILDING, 221 MAIN STREET NORTH, STILLWATER, MN, 55082, US
NUMBER OF CLAIMS: 46
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 26 Drawing Page(s)
LINE COUNT: 4075
AB The invention provides devices for treatment of a patient, wherein at least a portion of the device is provided with a biodegradable coating composed of multiple coated layers of biodegradable material. The invention further provides methods of treatment utilizing the devices.

L10 ANSWER 2 OF 44 USPATFULL on STN
ACCESSION NUMBER: 2006:152784 USPATFULL
TITLE: Device for the delivery of a cardioprotective agent to ischemic reperfused myocardium
INVENTOR(S): Kopia, Gregory A., Hillsborough, NJ, UNITED STATES
Llanos, Gerard, Stewartsville, NJ, UNITED STATES

	NUMBER	KIND	DATE	
PATENT INFORMATION:	US 2006129225	A1	20060615	
APPLICATION INFO.:	US 2004-13081	A1	20041215	(11)

DOCUMENT TYPE: Utility
FILE SEGMENT: APPLICATION
LEGAL REPRESENTATIVE: PHILIP S. JOHNSON, JOHNSON & JOHNSON, ONE JOHNSON & JOHNSON PLAZA, NEW BRUNSWICK, NJ, 08933-7003, US
NUMBER OF CLAIMS: 17
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 51 Drawing Page(s)
LINE COUNT: 5850
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB Medical devices, and in particular implantable medical devices, may be coated to minimize or substantially eliminate a biological organism's reaction to the introduction of the medical device to the organism. The medical devices may be coated with any number of biocompatible materials. Therapeutic drugs, agents or compounds may be mixed with the biocompatible materials and affixed to at least a portion of the medical device. These therapeutic drugs, agents or compounds may also further reduce a biological organism's reaction to the introduction of the medical device to the organism. In addition, these therapeutic

drugs, agents and/or compounds may be utilized to promote healing, including the formation of blood clots. The drugs, agents, and/or compounds may also be utilized to treat specific diseases, including vulnerable plaque. Therapeutic agents may also be delivered to the region of a disease site. In regional delivery, liquid formulations may be desirable to increase the efficacy and deliverability of the particular drug. Also, the devices may be modified to promote endothelialization. Various materials and coating methodologies may be utilized to maintain the drugs, agents or compounds on the medical device until delivered and positioned. In addition, the devices utilized to deliver the implantable medical devices may be modified to reduce the potential for damaging the implantable medical device during deployment. Medical devices include stents, grafts, anastomotic devices, perivascular wraps, sutures and staples. In addition, various polymer combinations may be utilized to control the elution rates of the therapeutic drugs, agents and/or compounds from the implantable medical devices. Implantable medical devices may be coated or otherwise have affixed thereto agents for healing ischemic tissue.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L10 ANSWER 3 OF 44 USPATFULL on STN

ACCESSION NUMBER:	2006:28966 USPATFULL
TITLE:	Method and device for surgical ventricular repair
INVENTOR(S):	Suresh, Mitta, Richardson, TX, UNITED STATES

	NUMBER	KIND	DATE	
PATENT INFORMATION:	US 2006025800	A1	20060202	
APPLICATION INFO.:	US 2005-158293	A1	20050621	(11)
RELATED APPLN. INFO.:	Continuation-in-part of Ser. No. US 2004-790669, filed on 1 Mar 2004, PENDING Continuation-in-part of Ser. No. US 2002-235295, filed on 5 Sep 2002, PENDING			

	NUMBER	DATE
PRIORITY INFORMATION:	US 2001-317197P	20010905 (60)
	US 2001-327221P	20011005 (60)

DOCUMENT TYPE:	Utility
FILE SEGMENT:	APPLICATION
LEGAL REPRESENTATIVE:	MEYERTONS, HOOD, KIVLIN, KOWERT & GOETZEL, P.C., P.O. BOX 398, AUSTIN, TX, 78767-0398, US
NUMBER OF CLAIMS:	35
EXEMPLARY CLAIM:	1
NUMBER OF DRAWINGS:	28 Drawing Page(s)
LINE COUNT:	2355

AB Embodiments disclose a method for repairing a heart of a human. A method may include introducing a collapsed reinforcing element through the skin into the vascular system of the human. The method may include delivering the reinforcing element into a left ventricle through the arteries. Once inside the left ventricle, the reinforcing element may be expanded to an expanded shape. In certain embodiments, a reinforcing element may be used to structurally reinforce a portion of an endocardial surface of a heart. The reinforcing element may include a preshaped patch and/or a plurality of preshaped flexible conduits. The method may include deploying the reinforcing element soon after a myocardial infarction to inhibit naturally occurring remodeling of the heart. The reinforcing element may be deployed with or without the use of a shaper. In some embodiments, a reinforcement element may be positioned on/coupled to an external surface of a human heart. In some embodiments, a reinforcing element may include an externally positioned apparatus configured to substantially reshape a portion of an interior chamber of a heart.

L10 ANSWER 4 OF 44 USPATFULL on STN
ACCESSION NUMBER: 2006:3521 USPATFULL
TITLE: Anti-proliferative and anti-inflammatory agent combination for treatment of vascular disorders with an implantable medical device
INVENTOR(S): Dugan, Stephen, San Franciso, CA, UNITED STATES

	NUMBER	KIND	DATE	
PATENT INFORMATION:	US 2006002977	A1	20060105	
APPLICATION INFO.:	US 2005-90507	A1	20050324	(11)

RELATED APPLN. INFO.: Continuation-in-part of Ser. No. US 2004-882506, filed on 30 Jun 2004, PENDING
DOCUMENT TYPE: Utility
FILE SEGMENT: APPLICATION
LEGAL REPRESENTATIVE: SQUIRE, SANDERS & DEMPSEY LLP, 1 MARITIME PLAZA, SUITE 300, SAN FRANCISCO, CA, 94111, US
NUMBER OF CLAIMS: 23
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 7 Drawing Page(s)
LINE COUNT: 1264
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB Drug-delivery systems such as drug-delivery stents having an anti-proliferative agent such as everolimus and an anti-flammatory agent such as clobetasol are provided. Also disclosed are methods of treating a vascular impairment such as restenosis or vulnerable plaque

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L10 ANSWER 5 OF 44 USPATFULL on STN
ACCESSION NUMBER: 2005:319270 USPATFULL
TITLE: Biodegradable vascular device with buffering agent
INVENTOR(S): Dave, Vipul Bhupendra, Hillsborough, NJ, UNITED STATES
Landau, George, Verona, NJ, UNITED STATES
Patel, Premal, Plainsboro, NJ, UNITED STATES

	NUMBER	KIND	DATE	
PATENT INFORMATION:	US 2005278015	A1	20051215	
APPLICATION INFO.:	US 2004-856459	A1	20040528	(10)

DOCUMENT TYPE: Utility
FILE SEGMENT: APPLICATION
LEGAL REPRESENTATIVE: PHILIP S. JOHNSON, JOHNSON & JOHNSON, ONE JOHNSON & JOHNSON PLAZA, NEW BRUNSWICK, NJ, 08933-7003, US
NUMBER OF CLAIMS: 32
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 4 Drawing Page(s)
LINE COUNT: 961
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB A vascular or cardiovascular medical device for placement at a site in a patient's body and for controlling pH levels at the site in the patient's body includes one or more structural components made of a biodegradable and/or bioabsorbable material, or alternatively, a coating thereon made of a biodegradable and/or bioabsorbable material. A buffering agent is provided on or in the biodegradable and/or bioabsorbable material and the buffering agent is dispersed from the biodegradable and/or bioabsorbable material in response to hydrolysis of the biodegradable and/or bioabsorbable material. Additionally, the vascular or cardiovascular medical device can include a drug that is included with the biodegradable and/or bioabsorbable material. The vascular or cardiovascular medical device can also be a stent or a valve.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L10 ANSWER 6 OF 44 USPATFULL on STN

ACCESSION NUMBER:	2005:318102 USPATFULL			
TITLE:	Biodegradable drug-polymer delivery system			
INVENTOR(S):	Davis, Mark E., Pasadena, CA, UNITED STATES Wright, Kenneth W., Rolling Hills Estate, CA, UNITED STATES Mack, Brendan, Pasedena, CA, UNITED STATES			
PATENT ASSIGNEE(S):	California Institute of Technology, Pasadena, CA, UNITED STATES, 91125 (U.S. corporation)			
	NUMBER	KIND	DATE	
PATENT INFORMATION:	US 2005276841	A1	20051215	
APPLICATION INFO.:	US 2005-148011	A1	20050607	(11)
	NUMBER		DATE	
PRIORITY INFORMATION:	US 2004-577906P		20040607	(60)
	US 2004-631448P		20041129	(60)
DOCUMENT TYPE:	Utility			
FILE SEGMENT:	APPLICATION			
LEGAL REPRESENTATIVE:	FISH & NEAVE IP GROUP, ROPES & GRAY LLP, ONE INTERNATIONAL PLACE, BOSTON, MA, 02110-2624, US			
NUMBER OF CLAIMS:	108			
EXEMPLARY CLAIM:	1			
NUMBER OF DRAWINGS:	16 Drawing Page(s)			
LINE COUNT:	2856			

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB A sustained-release biodegradable polymeric drug-eluting fiber is disclosed. In some embodiments, the therapeutic drug is complexed with cyclodextrin. In certain embodiments, the polymeric component of the fiber comprises cyclodextrin. The fiber may be fabricated to provide a thread and/or suture. The fiber may be used for treatment of ocular diseases or disorders.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L10 ANSWER 7 OF 44 USPATFULL on STN

ACCESSION NUMBER:	2005:313187 USPATFULL			
TITLE:	Injectable formulations of taxanes for cad treatment			
INVENTOR(S):	Falotico, Robert, Belle Mead, NJ, UNITED STATES Zhao, Jonathon Z., Belle Mead, NJ, UNITED STATES			
	NUMBER	KIND	DATE	
PATENT INFORMATION:	US 2005272806	A1	20051208	
APPLICATION INFO.:	US 2004-858954	A1	20040602	(10)
DOCUMENT TYPE:	Utility			
FILE SEGMENT:	APPLICATION			
LEGAL REPRESENTATIVE:	PHILIP S. JOHNSON, JOHNSON & JOHNSON, ONE JOHNSON & JOHNSON PLAZA, NEW BRUNSWICK, NJ, 08933-7003, US			
NUMBER OF CLAIMS:	12			
EXEMPLARY CLAIM:	1			
NUMBER OF DRAWINGS:	52 Drawing Page(s)			
LINE COUNT:	6727			

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Medical devices, and in particular implantable medical devices, may be coated to minimize or substantially eliminate a biological organism's reaction to the introduction of the medical device to the organism. The medical devices may be coated with any number of biocompatible materials. Therapeutic drugs, agents or compounds may be

mixed with the biocompatible materials and affixed to at least a portion of the medical device. These therapeutic drugs, agents or compounds may also further reduce a biological organism's reaction to the introduction of the medical device to the organism. In addition, these therapeutic drugs, agents and/or compounds may be utilized to promote healing, including the formation of blood clots. The drugs, agents, and/or compounds may also be utilized to treat specific diseases, including vulnerable plaque. Therapeutic agents may also be delivered to the region of a disease site. In regional delivery, liquid formulations may be desirable to increase the efficacy and deliverability of the particular drug. Also, the devices may be modified to promote endothelialization. Various materials and coating methodologies may be utilized to maintain the drugs, agents or compounds on the medical device until delivered and positioned. In addition, the devices utilized to deliver the implantable medical devices may be modified to reduce the potential for damaging the implantable medical device during deployment. Medical devices include stents, grafts, anastomotic devices, perivascular wraps, sutures and staples. In addition, various polymer combinations may be utilized to control the elution rates of the therapeutic drugs, agents and/or compounds from the implantable medical devices. Liquid formulations, including solutions and suspensions of the various drugs, agents and/or compounds, may be locally or regionally delivered. In each of these instances, antioxidants are utilized to prolong product integrity.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L10 ANSWER 8 OF 44 USPATFULL on STN
ACCESSION NUMBER: 2005:306919 USPATFULL
TITLE: Biodegradable medical implant with encapsulated buffering agent
INVENTOR(S): Dave, Vipul Bhupendra, Hillsborough, NJ, UNITED STATES
Landau, George, Verona, NJ, UNITED STATES
Patel, Premal, Plainsboro, NJ, UNITED STATES

	NUMBER	KIND	DATE	
PATENT INFORMATION:	US 2005267565	A1	20051201	
APPLICATION INFO.:	US 2004-856462	A1	20040528	(10)

DOCUMENT TYPE: Utility
FILE SEGMENT: APPLICATION
LEGAL REPRESENTATIVE: PHILIP S. JOHNSON, JOHNSON & JOHNSON, ONE JOHNSON & JOHNSON PLAZA, NEW BRUNSWICK, NJ, 08933-7003, US
NUMBER OF CLAIMS: 48
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 4 Drawing Page(s)
LINE COUNT: 1025
AB A medical device for placement at a site in a patient's body and for controlling pH levels at the site in the patient's body includes one or more structural components made of a first biodegradable and/or bioabsorbable material or, alternatively, one or more structural components having a coating thereon made of a first biodegradable and/or bioabsorbable material. The device also includes a buffering agent and at least one second biodegradable and/or bioabsorbable material on or in the one or more structural components, or alternatively, on or in the coating on the one or more structural components. The at least one second biodegradable and/or bioabsorbable material encapsulates the buffering agent and the buffering agent is dispersed from the at least one second biodegradable and/or bioabsorbable material in response to hydrolysis of the first biodegradable and/or bioabsorbable material. Additionally, the device can include a drug that is either also encapsulated by the at least one second biodegradable and/or bioabsorbable material or is included with

the first biodegradable and/or bioabsorbable material.

L10 ANSWER 9 OF 44 USPATFULL on STN
ACCESSION NUMBER: 2005:286512 USPATFULL
TITLE: Coated aneurysmal repair device
INVENTOR(S): Chen, Chao C., Edison, NJ, UNITED STATES
Falotico, Robert, Belle Mead, NJ, UNITED STATES

	NUMBER	KIND	DATE	
PATENT INFORMATION:	US 2005249776	A1	20051110	
APPLICATION INFO.:	US 2005-149466	A1	20050609	(11)

RELATED APPLN. INFO.: Continuation-in-part of Ser. No. US 2003-742346, filed on 19 Dec 2003, PENDING
DOCUMENT TYPE: Utility
FILE SEGMENT: APPLICATION
LEGAL REPRESENTATIVE: PHILIP S. JOHNSON, JOHNSON & JOHNSON, ONE JOHNSON & JOHNSON PLAZA, NEW BRUNSWICK, NJ, 08933-7003, US
NUMBER OF CLAIMS: 20
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 52 Drawing Page(s)
LINE COUNT: 6173
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Medical devices, and in particular implantable medical devices, may be coated to minimize or substantially eliminate a biological organism's reaction to the introduction of the medical device to the organism. The medical devices may be coated with any number of biocompatible materials. Therapeutic drugs, agents or compounds may be mixed with the biocompatible materials and affixed to at least a portion of the medical device. These therapeutic drugs, agents or compounds may also further reduce a biological organism's reaction to the introduction of the medical device to the organism. In addition, these therapeutic drugs, agents and/or compounds may be utilized to promote healing, including the formation of blood clots. The drugs, agents, and/or compounds may also be utilized to treat specific diseases, including vulnerable plaque. Therapeutic agents may also be delivered to the region of a disease site. In regional delivery, liquid formulations may be desirable to increase the efficacy and deliverability of the particular drug. Also, the devices may be modified to promote endothelialization. Various materials and coating methodologies may be utilized to maintain the drugs, agents or compounds on the medical device until delivered and positioned. In addition, the devices utilized to deliver the implantable medical devices may be modified to reduce the potential for damaging the implantable medical device during deployment. Medical devices include stents, grafts, anastomotic devices, perivascular wraps, sutures and staples. In addition, various polymer combinations may be utilized to control the elution rates of the therapeutic drugs, agents and/or compounds from the implantable medical devices.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L10 ANSWER 10 OF 44 USPATFULL on STN
ACCESSION NUMBER: 2005:286511 USPATFULL
TITLE: Intraluminal medical devices in combination with therapeutic agents
INVENTOR(S): Falotico, Robert, Belle Mead, NJ, UNITED STATES
Narayanan, Pallassana, Belle Mead, NJ, UNITED STATES

	NUMBER	KIND	DATE	
PATENT INFORMATION:	US 2005249775	A1	20051110	
APPLICATION INFO.:	US 2005-131720	A1	20050518	(11)

RELATED APPLN. INFO.: Continuation-in-part of Ser. No. US 2003-742346, filed on 19 Dec 2003, PENDING
DOCUMENT TYPE: Utility
FILE SEGMENT: APPLICATION
LEGAL REPRESENTATIVE: PHILIP S. JOHNSON, JOHNSON & JOHNSON, ONE JOHNSON & JOHNSON PLAZA, NEW BRUNSWICK, NJ, 08933-7003, US
NUMBER OF CLAIMS: 26
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 52 Drawing Page(s)
LINE COUNT: 6148
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Medical devices, and in particular implantable medical devices, may be coated to minimize or substantially eliminate a biological organism's reaction to the introduction of the medical device to the organism. The medical devices may be coated with any number of biocompatible materials. Therapeutic drugs, agents or compounds may be mixed with the biocompatible materials and affixed to at least a portion of the medical device. These therapeutic drugs, agents or compounds may also further reduce a biological organism's reaction to the introduction of the medical device to the organism. In addition, these therapeutic drugs, agents and/or compounds may be utilized to promote healing, including the formation of blood clots. The drugs, agents, and/or compounds may also be utilized to treat specific diseases, including vulnerable plaque. Therapeutic agents may also be delivered to the region of a disease site. In regional delivery, liquid formulations may be desirable to increase the efficacy and deliverability of the particular drug. Also, the devices may be modified to promote endothelialization. Various materials and coating methodologies may be utilized to maintain the drugs, agents or compounds on the medical device until delivered and positioned. In addition, the devices utilized to deliver the implantable medical devices may be modified to reduce the potential for damaging the implantable medical device during deployment. Medical devices include stents, grafts, anastomotic devices, perivascular wraps, sutures and staples. In addition, various polymer combinations may be utilized to control the elution rates of the therapeutic drugs, agents and/or compounds from the implantable medical devices.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L10 ANSWER 11 OF 44 USPATFULL on STN
ACCESSION NUMBER: 2005:280510 USPATFULL
TITLE: Composition and method for preparing biocompatible surfaces
INVENTOR(S): Stucke, Sean M., Farmington, MN, UNITED STATES
Chappa, Ralph A., Prior Lake, MN, UNITED STATES
Chinn, Joseph A., Shakopee, MN, UNITED STATES
Anderson, Aron B., Minnetonka, MN, UNITED STATES

	NUMBER	KIND	DATE	
PATENT INFORMATION:	US 2005244453	A1	20051103	
APPLICATION INFO.:	US 2005-90655	A1	20050325	(11)

	NUMBER	DATE	
PRIORITY INFORMATION:	US 2004-556634P	20040326	(60)
	US 2004-568021P	20040503	(60)
	US 2004-640602P	20041231	(60)
	US 2004-567915P	20040503	(60)

DOCUMENT TYPE: Utility
FILE SEGMENT: APPLICATION
LEGAL REPRESENTATIVE: Kagan Binder PLLC, 221 Main St N Ste 200, Maple Island Building, Stillwater, MN, 55082, US

NUMBER OF CLAIMS: 22
EXEMPLARY CLAIM: 1
LINE COUNT: 3205
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB The invention provides methods and compositions for providing biocompatible surfaces to medical articles. In particular the invention provides biocompatible coatings with heparin activity. In some aspects, the biocompatible coatings of the invention are able to release a bioactive agent. The coatings can be formed using biostable or biodegradable polymeric material and photoreactive groups. The invention also provides methods for improving the quality of bioactive agent-containing coatings by performing pre-irradiation of biocompatible coating compositions.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L10 ANSWER 12 OF 44 USPATFULL on STN
ACCESSION NUMBER: 2005:267654 USPATFULL
TITLE: Process and systems for biocompatible surfaces
INVENTOR(S): Stucke, Sean M., Farmington, MN, UNITED STATES
Chappa, Ralph A., Prior Lake, MN, UNITED STATES
Chinn, Joseph A., Shakopee, MN, UNITED STATES

	NUMBER	KIND	DATE	
PATENT INFORMATION:	US 2005232970	A1	20051020	
APPLICATION INFO.:	US 2005-90517	A1	20050325	(11)

	NUMBER	DATE	
PRIORITY INFORMATION:	US 2004-556634P	20040326	(60)
	US 2004-568021P	20040503	(60)

DOCUMENT TYPE: Utility
FILE SEGMENT: APPLICATION
LEGAL REPRESENTATIVE: Kagan Binder PLLC, Maple Island Building, 221 Main St N Ste 200, Stillwater, MN, 55082, US
NUMBER OF CLAIMS: 24
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 3 Drawing Page(s)
LINE COUNT: 2063
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB The invention provides methods and compositions for providing biocompatible surfaces to medical articles. In particular the invention provides biocompatible coatings with heparin activity that are able to release a bioactive agent, wherein the coatings are formed using biostable or biodegradable polymeric material and photoreactive groups.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L10 ANSWER 13 OF 44 USPATFULL on STN
ACCESSION NUMBER: 2005:267649 USPATFULL
TITLE: Local administration of a combination of rapamycin and 17 beta-estradiol for the treatment of vulnerable plaque
INVENTOR(S): Falotico, Robert, Belle Mead, NJ, UNITED STATES

	NUMBER	KIND	DATE	
PATENT INFORMATION:	US 2005232965	A1	20051020	
APPLICATION INFO.:	US 2004-826058	A1	20040415	(10)

DOCUMENT TYPE: Utility
FILE SEGMENT: APPLICATION

LEGAL REPRESENTATIVE: PHILIP S. JOHNSON, JOHNSON & JOHNSON, ONE JOHNSON & JOHNSON PLAZA, NEW BRUNSWICK, NJ, 08933-7003, US
NUMBER OF CLAIMS: 5
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 51 Drawing Page(s)
LINE COUNT: 6130
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Medical devices, and in particular implantable medical devices, may be coated to minimize or substantially eliminate a biological organism's reaction to the introduction of the medical device to the organism. The medical devices may be coated with any number of biocompatible materials. Therapeutic drugs, agents or compounds may be mixed with the biocompatible materials and affixed to at least a portion of the medical device. These therapeutic drugs, agents or compounds may also further reduce a biological organism's reaction to the introduction of the medical device to the organism. In addition, these therapeutic drugs, agents and/or compounds may be utilized to promote healing, including the formation of blood clots. The drugs, agents, and/or compounds may also be utilized to treat specific diseases, including vulnerable plaque. Therapeutic agents may also be delivered to the region of a disease site. In regional delivery, liquid formulations may be desirable to increase the efficacy and deliverability of the particular drug. Also, the devices may be modified to promote endothelialization. Various materials and coating methodologies may be utilized to maintain the drugs, agents or compounds on the medical device until delivered and positioned. In addition, the devices utilized to deliver the implantable medical devices may be modified to reduce the potential for damaging the implantable medical device during deployment. Medical devices include stents, grafts, anastomotic devices, perivascular wraps, sutures and staples. In addition, various polymer combinations may be utilized to control the elution rates of the therapeutic drugs, agents and/or compounds from the implantable medical devices.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L10 ANSWER 14 OF 44 USPATFULL on STN
ACCESSION NUMBER: 2005:267648 USPATFULL
TITLE: Use of antioxidants to prevent oxidation and reduce drug degradation in drug eluting medical devices
INVENTOR(S): Fennimore, Roy R. JR., Titusville, NJ, UNITED STATES

	NUMBER	KIND	DATE	
PATENT INFORMATION:	US 2005232964	A1	20051020	
APPLICATION INFO.:	US 2004-823834	A1	20040414	(10)

DOCUMENT TYPE: Utility
FILE SEGMENT: APPLICATION
LEGAL REPRESENTATIVE: PHILIP S. JOHNSON, JOHNSON & JOHNSON, ONE JOHNSON & JOHNSON PLAZA, NEW BRUNSWICK, NJ, 08933-7003, US
NUMBER OF CLAIMS: 35
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 52 Drawing Page(s)
LINE COUNT: 6544
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Medical devices, and in particular implantable medical devices, may be coated to minimize or substantially eliminate a biological organism's reaction to the introduction of the medical device to the organism. The medical devices may be coated with any number of biocompatible materials. Therapeutic drugs, agents or compounds may be mixed with the biocompatible materials and affixed to at least a portion of the medical device. These therapeutic drugs, agents or compounds may also further reduce a biological organism's reaction to the introduction of the medical device to the organism. In addition, these therapeutic

drugs, agents and/or compounds may be utilized to promote healing, including the formation of blood clots. The drugs, agents, and/or compounds may also be utilized to treat specific diseases, including vulnerable plaque. Therapeutic agents may also be delivered to the region of a disease site. In regional delivery, liquid formulations may be desirable to increase the efficacy and deliverability of the particular drug. Also, the devices may be modified to promote endothelialization. Various materials and coating methodologies may be utilized to maintain the drugs, agents or compounds on the medical device until delivered and positioned. In addition, the devices utilized to deliver the implantable medical devices may be modified to reduce the potential for damaging the implantable medical device during deployment. Medical devices include stents, grafts, anastomotic devices, perivascular wraps, sutures and staples. In addition, various polymer combinations may be utilized to control the elution rates of the therapeutic drugs, agents and/or compounds from the implantable medical devices. In each of these instances, antioxidants are utilized to prolong product integrity.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L10 ANSWER 15 OF 44 USPATFULL on STN
ACCESSION NUMBER: 2005:255693 USPATFULL
TITLE: Solution formulations of sirolimus and its analogs for CAD treatment
INVENTOR(S): Falotico, Robert, Belle Mead, NJ, UNITED STATES
Zhao, Jonathon Z., Belle Mead, NJ, UNITED STATES

	NUMBER	KIND	DATE	
PATENT INFORMATION:	US 2005222191	A1	20051006	
APPLICATION INFO.:	US 2004-813965	A1	20040331	(10)

DOCUMENT TYPE: Utility
FILE SEGMENT: APPLICATION
LEGAL REPRESENTATIVE: PHILIP S. JOHNSON, JOHNSON & JOHNSON, ONE JOHNSON & JOHNSON PLAZA, NEW BRUNSWICK, NJ, 08933-7003, US
NUMBER OF CLAIMS: 10
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 51 Drawing Page(s)
LINE COUNT: 5953
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Medical devices, and in particular implantable medical devices, may be coated to minimize or substantially eliminate a biological organism's reaction to the introduction of the medical device to the organism. The medical devices may be coated with any number of biocompatible materials. Therapeutic drugs, agents or compounds may be mixed with the biocompatible materials and affixed to at least a portion of the medical device. These therapeutic drugs, agents or compounds may also further reduce a biological organism's reaction to the introduction of the medical device to the organism. In addition, these therapeutic drugs, agents and/or compounds may be utilized to promote healing, including the formation of blood clots. Therapeutic agents may also be delivered to the region of a disease site. In regional delivery, liquid formulations may be desirable to increase the efficacy and deliverability of the particular drug. Also, the devices may be modified to promote endothelialization. Various materials and coating methodologies may be utilized to maintain the drugs, agents or compounds on the medical device until delivered and positioned. In addition, the devices utilized to deliver the implantable medical devices may be modified to reduce the potential for damaging the implantable medical device during deployment. Medical devices include stents, grafts, anastomotic devices, perivascular wraps, sutures and staples. In addition, various polymer combinations may be utilized to control the elution rates of the therapeutic drugs, agents and/or compounds from the

implantable medical devices.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L10 ANSWER 16 OF 44 USPATFULL on STN
ACCESSION NUMBER: 2005:254342 USPATFULL
TITLE: Drug delivery device
INVENTOR(S): Falotico, Robert, Belle Mead, NJ, UNITED STATES
Scheuble, Theresa, Rockaway, NJ, UNITED STATES
Kopia, Gregory Alan, Hillsborough, NJ, UNITED STATES

	NUMBER	KIND	DATE	
PATENT INFORMATION:	US 2005220836	A1	20051006	
APPLICATION INFO.:	US 2004-813976	A1	20040331	(10)

DOCUMENT TYPE: Utility
FILE SEGMENT: APPLICATION
LEGAL REPRESENTATIVE: PHILIP S. JOHNSON, JOHNSON & JOHNSON, ONE JOHNSON & JOHNSON PLAZA, NEW BRUNSWICK, NJ, 08933-7003, US
NUMBER OF CLAIMS: 8
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 51 Drawing Page(s)
LINE COUNT: 5727
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB Medical devices, and in particular implantable medical devices, may be coated to minimize or substantially eliminate a biological organism's reaction to the introduction of the medical device to the organism. The medical devices may be coated with any number of biocompatible materials. Therapeutic drugs, agents or compounds may be mixed with the biocompatible materials and affixed to at least a portion of the medical device. These therapeutic drugs, agents or compounds may also further reduce a biological organism's reaction to the introduction of the medical device to the organism. In addition, these therapeutic drugs, agents and/or compounds may be utilized to promote healing, including the formation of blood clots. Therapeutic agents may also be delivered to the region of a disease site. Also, the devices may be modified to promote endothelialization. Various materials and coating methodologies may be utilized to maintain the drugs, agents or compounds on the medical device until delivered and positioned. In addition, the devices utilized to deliver the implantable medical devices may be modified to reduce the potential for damaging the implantable medical device during deployment. Medical devices include stents, grafts, anastomotic devices, perivascular wraps, sutures and staples. In addition, various polymer combinations may be utilized to control the elution rates of the therapeutic drugs, agents and/or compounds from the implantable medical devices.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L10 ANSWER 17 OF 44 USPATFULL on STN
ACCESSION NUMBER: 2005:241683 USPATFULL
TITLE: Local vascular delivery of Panzem in combination with rapamycin to prevent restenosis following vascular injury
INVENTOR(S): Falotico, Robert, Belle Mead, NJ, UNITED STATES
Parry, Tom Jay, Hellertown, PA, UNITED STATES
Zhao, Jonathon Z., Belle Mead, NJ, UNITED STATES

	NUMBER	KIND	DATE	
PATENT INFORMATION:	US 2005209688	A1	20050922	
APPLICATION INFO.:	US 2004-805736	A1	20040322	(10)

DOCUMENT TYPE: Utility
FILE SEGMENT: APPLICATION

LEGAL REPRESENTATIVE: PHILIP S. JOHNSON, JOHNSON & JOHNSON, ONE JOHNSON & JOHNSON PLAZA, NEW BRUNSWICK, NJ, 08933-7003, US
NUMBER OF CLAIMS: 14
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 48 Drawing Page(s)
LINE COUNT: 5347
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB Medical devices, and in particular implantable medical devices, may be coated to minimize or substantially eliminate a biological organism's reaction to the introduction of the medical device to the organism. The medical devices may be coated with any number of biocompatible materials. Therapeutic drugs, agents or compounds may be mixed with the biocompatible materials and affixed to at least a portion of the medical device. These therapeutic drugs, agents or compounds may also further reduce a biological organism's reaction to the introduction of the medical device to the organism. In addition, these therapeutic drugs, agents and/or compounds may be utilized to promote healing, including the formation of blood clots. Also, the devices may be modified to promote endothelialization. Various materials and coating methodologies may be utilized to maintain the drugs, agents or compounds on the medical device until delivered and positioned. In addition, the devices utilized to deliver the implantable medical devices may be modified to reduce the potential for damaging the implantable medical device during deployment. Medical devices include stents, grafts, anastomotic devices, perivascular wraps, sutures and staples. In addition, various polymer combinations may be utilized to control the elution rates of the therapeutic drugs, agents and/or compounds from the implantable medical devices.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L10 ANSWER 18 OF 44 USPATFULL on STN
ACCESSION NUMBER: 2005:240092 USPATFULL
TITLE: Local vascular delivery of etoposide in combination with rapamycin to prevent restenosis following vascular injury
INVENTOR(S): Falotico, Robert, Belle Mead, NJ, UNITED STATES
Parry, Tom Jay, Hellertown, PA, UNITED STATES
Zhao, Jonathan Z., Belle Mead, NJ, UNITED STATES

	NUMBER	KIND	DATE	
PATENT INFORMATION:	US 2005208092	A1	20050922	
APPLICATION INFO.:	US 2004-805722	A1	20040322	(10)

DOCUMENT TYPE: Utility
FILE SEGMENT: APPLICATION
LEGAL REPRESENTATIVE: PHILIP S. JOHNSON, JOHNSON & JOHNSON, ONE JOHNSON & JOHNSON PLAZA, NEW BRUNSWICK, NJ, 08933-7003, US
NUMBER OF CLAIMS: 22
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 42 Drawing Page(s)
LINE COUNT: 5198
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB Medical devices, and in particular implantable medical devices, may be coated to minimize or substantially eliminate a biological organism's reaction to the introduction of the medical device to the organism. The medical devices may be coated with any number of biocompatible materials. Therapeutic drugs, agents or compounds may be mixed with the biocompatible materials and affixed to at least a portion of the medical device. These therapeutic drugs, agents or compounds may also further reduce a biological organism's reaction to the introduction of the medical device to the organism. In addition, these therapeutic drugs, agents and/or compounds may be utilized to promote healing, including the formation of blood clots. Also, the devices may be

modified to promote endothelialization. Various materials and coating methodologies may be utilized to maintain the drugs, agents or compounds on the medical device until delivered and positioned. In addition, the devices utilized to deliver the implantable medical devices may be modified to reduce the potential for damaging the implantable medical device during deployment. Medical devices include stents, grafts, anastomotic devices, perivascular wraps, sutures and staples. In addition, various polymer combinations may be utilized to control the elution rates of the therapeutic drugs, agents and/or compounds from the implantable medical devices.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L10 ANSWER 19 OF 44 USPATFULL on STN
ACCESSION NUMBER: 2005:233125 USPATFULL
TITLE: Local vascular delivery of topotecan in combination with rapamycin to prevent restenosis following vascular injury
INVENTOR(S): Falotico, Robert, Belle Mead, NJ, UNITED STATES
Parry, Tom Jay, Hellertown, PA, UNITED STATES
Zhao, Jonathon Z., Belle Mead, NJ, UNITED STATES

	NUMBER	KIND	DATE	
PATENT INFORMATION:	US 2005202059	A1	20050915	
APPLICATION INFO.:	US 2004-796397	A1	20040309	(10)

DOCUMENT TYPE: Utility
FILE SEGMENT: APPLICATION
LEGAL REPRESENTATIVE: PHILIP S. JOHNSON, JOHNSON & JOHNSON, ONE JOHNSON & JOHNSON PLAZA, NEW BRUNSWICK, NJ, 08933-7003, US
NUMBER OF CLAIMS: 24
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 41 Drawing Page(s)
LINE COUNT: 5096
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB Medical devices, and in particular implantable medical devices, may be coated to minimize or substantially eliminate a biological organism's reaction to the introduction of the medical device to the organism. The medical devices may be coated with any number of biocompatible materials. Therapeutic drugs, agents or compounds may be mixed with the biocompatible materials and affixed to at least a portion of the medical device. These therapeutic drugs, agents or compounds may also further reduce a biological organism's reaction to the introduction of the medical device to the organism. In addition, these therapeutic drugs, agents and/or compounds may be utilized to promote healing, including the formation of blood clots. Also, the devices may be modified to promote endothelialization. Various materials and coating methodologies may be utilized to maintain the drugs, agents or compounds on the medical device until delivered and positioned. In addition, the devices utilized to deliver the implantable medical devices may be modified to reduce the potential for damaging the implantable medical device during deployment. Medical devices include stents, grafts, anastomotic devices, perivascular wraps, sutures and staples. In addition, various polymer combinations may be utilized to control the elution rates of the therapeutic drugs, agents and/or compounds from the implantable medical devices.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L10 ANSWER 20 OF 44 USPATFULL on STN
ACCESSION NUMBER: 2005:215931 USPATFULL
TITLE: Radioprotective compound coating for medical devices
INVENTOR(S): O'Hara, Michael D., Columbia, MD, UNITED STATES

	NUMBER	KIND	DATE	
PATENT INFORMATION:	US 2005187608	A1	20050825	
APPLICATION INFO.:	US 2004-785519	A1	20040224	(10)
DOCUMENT TYPE:	Utility			
FILE SEGMENT:	APPLICATION			
LEGAL REPRESENTATIVE:	PHILIP S. JOHNSON, JOHNSON & JOHNSON, ONE JOHNSON & JOHNSON PLAZA, NEW BRUNSWICK, NJ, 08933-7003, US			
NUMBER OF CLAIMS:	14			
EXEMPLARY CLAIM:	1			
NUMBER OF DRAWINGS:	33 Drawing Page(s)			
LINE COUNT:	4794			

AB Medical devices, and in particular implantable medical devices, may be coated to minimize or substantially eliminate a biological organism's reaction to the introduction of the medical device to the organism. The medical devices may be coated with any number of biocompatible materials. Therapeutic drugs, agents or compounds may be mixed with the biocompatible materials and affixed to at least a portion of the medical device. These therapeutic drugs, agents or compounds may also further reduce a biological organism's reaction to the introduction of the medical device to the organism. In addition, these therapeutic drugs, agents and/or compounds may be utilized to promote healing, including the formation of blood clots. Also, the devices may be modified to promote endothelialization. Other compounds may include those that prevent damage from ionizing radiation. Various materials and coating methodologies may be utilized to maintain the drugs, agents or compounds on the medical device until delivered and positioned. In addition, the devices utilized to deliver the implantable medical devices may be modified to reduce the potential for damaging the implantable medical device during deployment. Medical devices include stents, grafts, anastomotic devices, perivascular wraps, sutures and staples. In addition, various polymer combinations may be utilized to control the elution rates of the therapeutic drugs, agents and/or compounds from the implantable medical devices.

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NEWS 17   AUG 30    CA(SM)/CAplus(SM) Austrian patent law changes
NEWS 18   SEP 11    CA/CAplus enhanced with more pre-1907 records
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NEWS 22   SEP 25    CAS REGISTRY(SM) updated with amino acid codes for pyrrolysine
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                    classification scheme

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Tacrolimus or (ASM 981) or Pimecrolimus) or wortmannin or Tumistatin)
UNMATCHED RIGHT PARENTHESIS 'TUMISTATIN)'
The number of right parentheses in a query must be equal to the
number of left parentheses.

=> s (rapamycin? or (CCI 779) or (RAD 001) or (SDZ Rad) or everolimus or FK506 or
Tacrolimus or (ASM 981) or Pimecrolimus or wortmannin or Tumistatin)
L1       108145 (RAPAMYCIN? OR (CCI 779) OR (RAD 001) OR (SDZ RAD) OR EVEROLIMUS
                 OR FK506 OR TACROLIMUS OR (ASM 981) OR PIMECROLIMUS OR WORTMANN
                IN OR TUMISTATIN)

=> s l1 and link?
L2        12395 L1 AND LINK?

=> s l2 and backbone
L3         3038 L2 AND BACKBONE

=> s l3 and ((polyamino? or polylysine or PEG or (polyethylene glycol) or
polyaspartate)
UNMATCHED LEFT PARENTHESIS 'AND ((POLYAMINO'
The number of right parentheses in a query must be equal to the
number of left parentheses.

=> s l3 and (polyamino? or polylysine or PEG or (polyethylene glycol) or
polyaspartate)
L4         2021 L3 AND (POLYAMINO? OR POLYLYSINE OR PEG OR (POLYETHYLENE GLYCOL
                ) OR POLYASPARTATE)

=> s l4 and (implant? or prosthe?)
L5         1539 L4 AND (IMPLANT? OR PROSTHE?)

=> s l5 and biodegrad?
L6          712 L5 AND BIODEGRAD?

=> s l6 and coat?
L7          701 L6 AND COAT?

=> s l7 and matrix
L8          666 L7 AND MATRIX

=> s l8 and mTor
L9           43 L8 AND MTOR

=> s l9 and receptor?
L10          42 L9 AND RECEPTOR?

=> s l10 and ((ester linkage) or (heterobifunctional linker) or (amide ester
linkage) or (disulfide linkage))
L11           0 L10 AND ((ESTER LINKAGE) OR (HETEROBIFUNCTIONAL LINKER) OR (AMID
                E ESTER LINKAGE) OR (DISULFIDE LINKAGE))

=> s l10 and ((ester link?) or (heterobifunctional link?) or (amide ester link?) or
(disulfide link?))
L12           7 L10 AND ((ESTER LINK?) OR (HETEROBIFUNCTIONAL LINK?) OR (AMIDE
                ESTER LINK?) OR (DISULFIDE LINK?))
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=> d l12 1-7 ibib abs

L12 ANSWER 1 OF 7 USPATFULL on STN

ACCESSION NUMBER:	2006:233416 USPATFULL
TITLE:	Biodegradable coating compositions comprising blends
INVENTOR(S):	DeWitt, David M., Minneapolis, MN, UNITED STATES Hergenrother, Robert W., Eden Prairie, MN, UNITED STATES Malinoff, Harrison, Golden Valley, MN, UNITED STATES

	NUMBER	KIND	DATE	
PATENT INFORMATION:	US 2006198868	A1	20060907	
APPLICATION INFO.:	US 2005-317212	A1	20051222	(11)

	NUMBER	DATE	
PRIORITY INFORMATION:	US 2005-641533P	20050105	(60)

DOCUMENT TYPE:	Utility
FILE SEGMENT:	APPLICATION
LEGAL REPRESENTATIVE:	KAGAN BINDER, PLLC, SUITE 200, MAPLE ISLAND BUILDING, 221 MAIN STREET NORTH, STILLWATER, MN, 55082, US
NUMBER OF CLAIMS:	27
EXEMPLARY CLAIM:	1
NUMBER OF DRAWINGS:	16 Drawing Page(s)
LINE COUNT:	3470

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The invention provides devices for treatment of a patient, wherein at least a portion of the device is provided with a biodegradable coating composed of a blend of bioactive agent and at least two biodegradable polymers or copolymers. The invention further provides methods of treatment utilizing the devices.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L12 ANSWER 2 OF 7 USPATFULL on STN

ACCESSION NUMBER:	2006:174045 USPATFULL
TITLE:	Biodegradable coating compositions including multiple layers
INVENTOR(S):	DeWitt, David M., Minneapolis, MN, UNITED STATES Hergenrother, Robert W., Eden Prairie, MN, UNITED STATES

	NUMBER	KIND	DATE	
PATENT INFORMATION:	US 2006147491	A1	20060706	
APPLICATION INFO.:	US 2005-316787	A1	20051222	(11)

	NUMBER	DATE	
PRIORITY INFORMATION:	US 2005-641557P	20050105	(60)

DOCUMENT TYPE:	Utility
FILE SEGMENT:	APPLICATION
LEGAL REPRESENTATIVE:	KAGAN BINDER, PLLC, SUITE 200, MAPLE ISLAND BUILDING, 221 MAIN STREET NORTH, STILLWATER, MN, 55082, US
NUMBER OF CLAIMS:	46
EXEMPLARY CLAIM:	1
NUMBER OF DRAWINGS:	26 Drawing Page(s)
LINE COUNT:	4075

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The invention provides devices for treatment of a patient, wherein at least a portion of the device is provided with a biodegradable coating composed of multiple coated layers of

biodegradable material. The invention further provides methods of treatment utilizing the devices.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L12 ANSWER 3 OF 7 USPATFULL on STN
ACCESSION NUMBER: 2006:104550 USPATFULL
TITLE: Method and apparatus for coating of substrates
INVENTOR(S): Chappa, Ralph A., Prior Lake, MN, UNITED STATES

	NUMBER	KIND	DATE	
PATENT INFORMATION:	US 2006088653	A1	20060427	
APPLICATION INFO.:	US 2004-976193	A1	20041027	(10)

DOCUMENT TYPE: Utility
FILE SEGMENT: APPLICATION
LEGAL REPRESENTATIVE: PAULY, DEVRIES SMITH & DEFFNER, L.L.C., 900 IDS CENTER, 80 SOUTH EIGHTH STREET, MINNEAPOLIS, MN, 55402-8773, US
NUMBER OF CLAIMS: 77
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 25 Drawing Page(s)
LINE COUNT: 2385
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB The invention relates to methods and apparatuses that reduce problems encountered during coating of a device, such as a medical device having a cylindrical shape. In an embodiment, the invention includes an apparatus including a bi-directional rotation member. In an embodiment, the invention includes a method with a bi-directional indexing movement. In an embodiment, the invention includes a coating solution supply member having a major axis oriented parallel to a gap between rollers on a coating apparatus. In an embodiment, the invention includes a device retaining member. In an embodiment, the invention includes an air nozzle or an air knife. In an embodiment, the invention includes a method including removing a static charge from a small diameter medical device.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L12 ANSWER 4 OF 7 USPATFULL on STN
ACCESSION NUMBER: 2006:67060 USPATFULL
TITLE: Methods, devices, and coatings for controlled active agent release
INVENTOR(S): Chappa, Ralph A., Prior Lake, MN, UNITED STATES

	NUMBER	KIND	DATE	
PATENT INFORMATION:	US 2006057277	A1	20060316	
APPLICATION INFO.:	US 2005-223811	A1	20050909	(11)

	NUMBER	DATE
PRIORITY INFORMATION:	US 2004-608638P	20040910 (60)

DOCUMENT TYPE: Utility
FILE SEGMENT: APPLICATION
LEGAL REPRESENTATIVE: PAULY, DEVRIES SMITH & DEFFNER, L.L.C., 900 IDS CENTER, 80 SOUTH EIGHTH STREET, MINNEAPOLIS, MN, 55402-8773, US
NUMBER OF CLAIMS: 25
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 4 Drawing Page(s)
LINE COUNT: 1438
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB The present invention relates to methods, devices, and coatings , wherein active agent release is determined by deposition rate of a

coating or material. In an embodiment, the invention includes a method for coating a medical device, including identifying active agent elution rates for a coating composition applied to substrates at a plurality of coating deposition rates, selecting one of the coating deposition rates, and applying the coating composition to the medical device at the selected deposition rate. In an embodiment, the invention includes a combination including a medical device and a composition for coating the surface of a medical device with an active agent in a manner that permits the coated surface to release the active agent over time when implanted in vivo.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L12 ANSWER 5 OF 7 USPATFULL on STN
ACCESSION NUMBER: 2005:292596 USPATFULL
TITLE: Coatings for medical articles including natural biodegradable polysaccharides
INVENTOR(S): Chudzik, Stephen J., St. Paul, MN, UNITED STATES
Chinn, Joseph A., Shakopee, MN, UNITED STATES
Swan, Dale G., St. Louis Park, MN, UNITED STATES
Burkstrand, Michael J., Richfield, MN, UNITED STATES
PATENT ASSIGNEE(S): SurModics, Inc. (U.S. corporation)

	NUMBER	KIND	DATE	
PATENT INFORMATION:	US 2005255142	A1	20051117	
APPLICATION INFO.:	US 2005-127351	A1	20050512	(11)

	NUMBER	DATE	
PRIORITY INFORMATION:	US 2004-570334P	20040512	(60)
	US 2004-603707P	20040823	(60)
	US 2004-613662P	20040928	(60)

DOCUMENT TYPE: Utility
FILE SEGMENT: APPLICATION
LEGAL REPRESENTATIVE: KAGAN BINDER, PLLC, SUITE 200, MAPLE ISLAND BUILDING, 221 MAIN STREET NORTH, STILLWATER, MN, 55082, US
NUMBER OF CLAIMS: 21
EXEMPLARY CLAIM: 1
LINE COUNT: 2724
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB Biodegradable coatings that include natural biodegradable polysaccharides are described. The coating is formed from a plurality of natural biodegradable polysaccharides having pendent coupling groups.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L12 ANSWER 6 OF 7 USPATFULL on STN
ACCESSION NUMBER: 2005:267654 USPATFULL
TITLE: Process and systems for biocompatible surfaces
INVENTOR(S): Stucke, Sean M., Farmington, MN, UNITED STATES
Chappa, Ralph A., Prior Lake, MN, UNITED STATES
Chinn, Joseph A., Shakopee, MN, UNITED STATES

	NUMBER	KIND	DATE	
PATENT INFORMATION:	US 2005232970	A1	20051020	
APPLICATION INFO.:	US 2005-90517	A1	20050325	(11)

	NUMBER	DATE	
PRIORITY INFORMATION:	US 2004-556634P	20040326	(60)

US 2004-568021P 20040503 (60)
DOCUMENT TYPE: Utility
FILE SEGMENT: APPLICATION
LEGAL REPRESENTATIVE: Kagan Binder PLLC, Maple Island Building, 221 Main St N Ste 200, Stillwater, MN, 55082, US
NUMBER OF CLAIMS: 24
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 3 Drawing Page(s)
LINE COUNT: 2063
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB The invention provides methods and compositions for providing biocompatible surfaces to medical articles. In particular the invention provides biocompatible coatings with heparin activity that are able to release a bioactive agent, wherein the coatings are formed using biostable or biodegradable polymeric material and photoreactive groups.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L12 ANSWER 7 OF 7 USPATFULL on STN
ACCESSION NUMBER: 2005:183066 USPATFULL
TITLE: Method and apparatus for coating of substrates
INVENTOR(S): Chappa, Ralph A., Prior Lake, MN, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2005158449	A1	20050721
APPLICATION INFO.:	US 2004-976348	A1	20041027 (10)

RELATED APPLN. INFO.: Continuation of Ser. No. US 2002-256349, filed on 27 Sep 2002, PENDING
DOCUMENT TYPE: Utility
FILE SEGMENT: APPLICATION
LEGAL REPRESENTATIVE: MERCHANT & GOULD PC, P.O. BOX 2903, MINNEAPOLIS, MN, 55402-0903, US
NUMBER OF CLAIMS: 30
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 25 Drawing Page(s)
LINE COUNT: 2248
AB The invention relates to methods and apparatuses that reduce problems encountered during coating of a device, such as a medical device having a cylindrical shape. In an embodiment, the invention includes an apparatus including a bi-directional rotation member. In an embodiment, the invention includes a method with a bi-directional indexing movement. In an embodiment, the invention includes a coating solution supply member having a major axis oriented parallel to a gap between rollers on a coating apparatus. In an embodiment, the invention includes a device retaining member. In an embodiment, the invention includes an air nozzle or an air knife. In an embodiment, the invention includes a method including removing a static charge from a small diameter medical device.

=> d his

(FILE 'HOME' ENTERED AT 18:45:42 ON 05 OCT 2006)

FILE 'HCAPLUS, USPATFULL, EPFULL, JAPIO, MEDLINE, BIOSIS, EMBASE, SCISEARCH' ENTERED AT 18:47:05 ON 05 OCT 2006
L1 108145 S (RAPAMYCIN? OR (CCI 779) OR (RAD 001) OR (SDZ RAD) OR EVEROLI
L2 12395 S L1 AND LINK?
L3 3038 S L2 AND BACKBONE
L4 2021 S L3 AND (POLYAMINO? OR POLYLYSINE OR PEG OR (POLYETHYLENE GLY

```
L5          1539 S L4 AND (IMPLANT? OR PROSTHE?)
L6           712 S L5 AND BIODEGRAD?
L7           701 S L6 AND COAT?
L8           666 S L7 AND MATRIX
L9            43 S L8 AND MTOR
L10           42 S L9 AND RECEPTOR?
L11            0 S L10 AND ((ESTER LINKAGE) OR (HETEROBIFUNCTIONAL LINKER) OR (A
L12            7 S L10 AND ((ESTER LINK?) OR (HETEROBIFUNCTIONAL LINK?) OR (AMID

=> s L4 and ((ester link?) or (heterobifunctional link?) or (amide ester link?) or
(disulfide link?))
L13         899 L4 AND ((ESTER LINK?) OR (HETEROBIFUNCTIONAL LINK?) OR (AMIDE
                ESTER LINK?) OR (DISULFIDE LINK?))

=> mTor
MTOR IS NOT A RECOGNIZED COMMAND
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"HELP COMMANDS" at an arrow prompt (=>).

=> s L 13 and mTor
L14             0 L 13 AND MTOR

=> s l14 and (implant? or prosthe?)
L15             0 L14 AND (IMPLANT? OR PROSTHE?)

=> s l13 and (implant? or prosthe?)
L16           802 L13 AND (IMPLANT? OR PROSTHE?)

=> s l16 and coat?
L17           792 L16 AND COAT?

=> s l17 and biodegrad?
L18           274 L17 AND BIODEGRAD?

=> s l18 and matrix
L19           261 L18 AND MATRIX

=> s l19 and receptor?
L20           239 L19 AND RECEPTOR?

=> s l20 and derivatives
L21           239 L20 AND DERIVATIVES

=> s l21 and mTor
L22             7 L21 AND MTOR

=> d l22 1-7 ibib abs

L22  ANSWER 1 OF 7  USPATFULL on STN
ACCESSION NUMBER:         2006:233416  USPATFULL
TITLE:                    Biodegradable coating compositions
                          comprising blends
INVENTOR(S):              DeWitt, David M., Minneapolis, MN, UNITED STATES
                          Hergenrother, Robert W., Eden Prairie, MN, UNITED
                          STATES
                          Malinoff, Harrison, Golden Valley, MN, UNITED STATES

                               NUMBER         KIND    DATE
                          ---------------- ------ --------
PATENT INFORMATION:       US 2006198868      A1   20060907
APPLICATION INFO.:        US 2005-317212     A1   20051222  (11)

                                 NUMBER         DATE
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	NUMBER	DATE
PRIORITY INFORMATION:	US 2005-641533P	20050105 (60)

DOCUMENT TYPE: Utility
FILE SEGMENT: APPLICATION
LEGAL REPRESENTATIVE: KAGAN BINDER, PLLC, SUITE 200, MAPLE ISLAND BUILDING, 221 MAIN STREET NORTH, STILLWATER, MN, 55082, US
NUMBER OF CLAIMS: 27
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 16 Drawing Page(s)
LINE COUNT: 3470
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The invention provides devices for treatment of a patient, wherein at least a portion of the device is provided with a biodegradable coating composed of a blend of bioactive agent and at least two biodegradable polymers or copolymers. The invention further provides methods of treatment utilizing the devices.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L22 ANSWER 2 OF 7 USPATFULL on STN
ACCESSION NUMBER: 2006:174045 USPATFULL
TITLE: Biodegradable coating compositions including multiple layers
INVENTOR(S): DeWitt, David M., Minneapolis, MN, UNITED STATES
Hergenrother, Robert W., Eden Prairie, MN, UNITED STATES

	NUMBER	KIND	DATE	
PATENT INFORMATION:	US 2006147491	A1	20060706	
APPLICATION INFO.:	US 2005-316787	A1	20051222	(11)

	NUMBER	DATE
PRIORITY INFORMATION:	US 2005-641557P	20050105 (60)

DOCUMENT TYPE: Utility
FILE SEGMENT: APPLICATION
LEGAL REPRESENTATIVE: KAGAN BINDER, PLLC, SUITE 200, MAPLE ISLAND BUILDING, 221 MAIN STREET NORTH, STILLWATER, MN, 55082, US
NUMBER OF CLAIMS: 46
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 26 Drawing Page(s)
LINE COUNT: 4075
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The invention provides devices for treatment of a patient, wherein at least a portion of the device is provided with a biodegradable coating composed of multiple coated layers of biodegradable material. The invention further provides methods of treatment utilizing the devices.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L22 ANSWER 3 OF 7 USPATFULL on STN
ACCESSION NUMBER: 2006:104550 USPATFULL
TITLE: Method and apparatus for coating of substrates
INVENTOR(S): Chappa, Ralph A., Prior Lake, MN, UNITED STATES

	NUMBER	KIND	DATE	
PATENT INFORMATION:	US 2006088653	A1	20060427	
APPLICATION INFO.:	US 2004-976193	A1	20041027	(10)

DOCUMENT TYPE: Utility
FILE SEGMENT: APPLICATION

LEGAL REPRESENTATIVE: PAULY, DEVRIES SMITH & DEFFNER, L.L.C., 900 IDS CENTER, 80 SOUTH EIGHTH STREET, MINNEAPOLIS, MN, 55402-8773, US
NUMBER OF CLAIMS: 77
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 25 Drawing Page(s)
LINE COUNT: 2385
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The invention relates to methods and apparatuses that reduce problems encountered during coating of a device, such as a medical device having a cylindrical shape. In an embodiment, the invention includes an apparatus including a bi-directional rotation member. In an embodiment, the invention includes a method with a bi-directional indexing movement. In an embodiment, the invention includes a coating solution supply member having a major axis oriented parallel to a gap between rollers on a coating apparatus. In an embodiment, the invention includes a device retaining member. In an embodiment, the invention includes an air nozzle or an air knife. In an embodiment, the invention includes a method including removing a static charge from a small diameter medical device.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L22 ANSWER 4 OF 7 USPATFULL on STN
ACCESSION NUMBER: 2006:67060 USPATFULL
TITLE: Methods, devices, and coatings for controlled active agent release
INVENTOR(S): Chappa, Ralph A., Prior Lake, MN, UNITED STATES

	NUMBER	KIND	DATE	
PATENT INFORMATION:	US 2006057277	A1	20060316	
APPLICATION INFO.:	US 2005-223811	A1	20050909	(11)

	NUMBER	DATE	
PRIORITY INFORMATION:	US 2004-608638P	20040910	(60)

DOCUMENT TYPE: Utility
FILE SEGMENT: APPLICATION
LEGAL REPRESENTATIVE: PAULY, DEVRIES SMITH & DEFFNER, L.L.C., 900 IDS CENTER, 80 SOUTH EIGHTH STREET, MINNEAPOLIS, MN, 55402-8773, US
NUMBER OF CLAIMS: 25
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 4 Drawing Page(s)
LINE COUNT: 1438

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention relates to methods, devices, and coatings , wherein active agent release is determined by deposition rate of a coating or material. In an embodiment, the invention includes a method for coating a medical device, including identifying active agent elution rates for a coating composition applied to substrates at a plurality of coating deposition rates, selecting one of the coating deposition rates, and applying the coating composition to the medical device at the selected deposition rate. In an embodiment, the invention includes a combination including a medical device and a composition for coating the surface of a medical device with an active agent in a manner that permits the coated surface to release the active agent over time when implanted in vivo.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L22 ANSWER 5 OF 7 USPATFULL on STN
ACCESSION NUMBER: 2005:292596 USPATFULL
TITLE: Coatings for medical articles including

natural biodegradable polysaccharides

INVENTOR(S): Chudzik, Stephen J., St. Paul, MN, UNITED STATES
Chinn, Joseph A., Shakopee, MN, UNITED STATES
Swan, Dale G., St. Louis Park, MN, UNITED STATES
Burkstrand, Michael J., Richfield, MN, UNITED STATES

PATENT ASSIGNEE(S): SurModics, Inc. (U.S. corporation)

	NUMBER	KIND	DATE	
PATENT INFORMATION:	US 2005255142	A1	20051117	
APPLICATION INFO.:	US 2005-127351	A1	20050512	(11)

	NUMBER	DATE	
PRIORITY INFORMATION:	US 2004-570334P	20040512	(60)
	US 2004-603707P	20040823	(60)
	US 2004-613662P	20040928	(60)

DOCUMENT TYPE: Utility
FILE SEGMENT: APPLICATION
LEGAL REPRESENTATIVE: KAGAN BINDER, PLLC, SUITE 200, MAPLE ISLAND BUILDING, 221 MAIN STREET NORTH, STILLWATER, MN, 55082, US
NUMBER OF CLAIMS: 21
EXEMPLARY CLAIM: 1
LINE COUNT: 2724
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Biodegradable coatings that include natural biodegradable polysaccharides are described. The coating is formed from a plurality of natural biodegradable polysaccharides having pendent coupling groups.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L22 ANSWER 6 OF 7 USPATFULL on STN
ACCESSION NUMBER: 2005:267654 USPATFULL
TITLE: Process and systems for biocompatible surfaces
INVENTOR(S): Stucke, Sean M., Farmington, MN, UNITED STATES
Chappa, Ralph A., Prior Lake, MN, UNITED STATES
Chinn, Joseph A., Shakopee, MN, UNITED STATES

	NUMBER	KIND	DATE	
PATENT INFORMATION:	US 2005232970	A1	20051020	
APPLICATION INFO.:	US 2005-90517	A1	20050325	(11)

	NUMBER	DATE	
PRIORITY INFORMATION:	US 2004-556634P	20040326	(60)
	US 2004-568021P	20040503	(60)

DOCUMENT TYPE: Utility
FILE SEGMENT: APPLICATION
LEGAL REPRESENTATIVE: Kagan Binder PLLC, Maple Island Building, 221 Main St N Ste 200, Stillwater, MN, 55082, US
NUMBER OF CLAIMS: 24
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 3 Drawing Page(s)
LINE COUNT: 2063
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The invention provides methods and compositions for providing biocompatible surfaces to medical articles. In particular the invention provides biocompatible coatings with heparin activity that are able to release a bioactive agent, wherein the coatings are formed using biostable or biodegradable polymeric material and photoreactive groups.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L22 ANSWER 7 OF 7 USPATFULL on STN

ACCESSION NUMBER:	2005:183066 USPATFULL
TITLE:	Method and apparatus for coating of substrates
INVENTOR(S):	Chappa, Ralph A., Prior Lake, MN, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2005158449	A1	20050721
APPLICATION INFO.:	US 2004-976348	A1	20041027 (10)

RELATED APPLN. INFO.:	Continuation of Ser. No. US 2002-256349, filed on 27 Sep 2002, PENDING
DOCUMENT TYPE:	Utility
FILE SEGMENT:	APPLICATION
LEGAL REPRESENTATIVE:	MERCHANT & GOULD PC, P.O. BOX 2903, MINNEAPOLIS, MN, 55402-0903, US
NUMBER OF CLAIMS:	30
EXEMPLARY CLAIM:	1
NUMBER OF DRAWINGS:	25 Drawing Page(s)
LINE COUNT:	2248

AB The invention relates to methods and apparatuses that reduce problems encountered during coating of a device, such as a medical device having a cylindrical shape. In an embodiment, the invention includes an apparatus including a bi-directional rotation member. In an embodiment, the invention includes a method with a bi-directional indexing movement. In an embodiment, the invention includes a coating solution supply member having a major axis oriented parallel to a gap between rollers on a coating apparatus. In an embodiment, the invention includes a device retaining member. In an embodiment, the invention includes an air nozzle or an air knife. In an embodiment, the invention includes a method including removing a static charge from a small diameter medical device.

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NEWS	17	AUG 30	CA(SM)/CAplus(SM) Austrian patent law changes
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NEWS	20	SEP 25	CA(SM)/CAplus(SM) display of CA Lexicon enhanced
NEWS	21	SEP 25	CAS REGISTRY(SM) no longer includes Concord 3D coordinates
NEWS	22	SEP 25	CAS REGISTRY(SM) updated with amino acid codes for pyrrolysine
NEWS	23	SEP 28	CEABA-VTB classification code fields reloaded with new classification scheme

NEWS EXPRESS	JUNE 30 CURRENT WINDOWS VERSION IS V8.01b, CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP), AND CURRENT DISCOVER FILE IS DATED 26 JUNE 2006.
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